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Pollen tube of *Houstonia*.—MATHEWSON²² has studied the advance of the pollen tube in *Houstonia*, coming to the conclusion that any mutual influence between the tube and the cells with which it comes in contact is very slight; and that the direction of the advance of the tube seems to be chiefly in response to a stimulus originating in the egg apparatus, perhaps in the egg itself.—J. M. C.

Operculina.—HOUSE²³ has published a synopsis of the genus *Operculina* as the second paper of his series on North American Convolvulaceae. It comprises about twenty tropical species, which are perhaps better known to many botanists under *Convolvulus* and *Ipomoea*. In North America fifteen species are recognized, two of them being described as new.—J. M. C.

Influence of temperature upon flowering of fruit trees.—Ecologists and physiologists will be interested in the phenological notes presented by SANDSTEN²⁴ relative to the influence of temperature and other factors upon the time of flowering of certain fruit trees. He reaches the conclusion that "physiological constants can be formulated from the climatic conditions during the ten months preceding the time of flowering."—E. MEAD WILCOX.

Effect of light on growth.—SELBY²⁵ has extended the work of MacDOUGAL to include four other species, mostly those which are latex-bearing. MACDOUGAL'S conclusions that light does not have a retarding influence on growth and that it does stimulate morphogenic processes in the meristematic tissues are confirmed.—RAYMOND H. POND.

Varieties of roots developed by English ivy.—Miss RANDOLPH²⁶ finds that *Hedera Helix* may be induced to form in all seven kinds of roots according to the conditions of moisture.—RAYMOND H. POND.

²² MATHEWSON, C. A., The behavior of the pollen tube in *Houstonia coerulea*. Bull. Torr. Bot. Club 33:487-493. *figs.* 3. 1906.

²³ HOUSE, H. D., Studies in the N. Am. Convolvulaceae. II. The genus *Operculina*. Bull. Torr. Bot. Club 33:495-503. 1906.

²⁴ SANDSTEN, E. P., Conditions which affect the time of the annual flowering of fruit trees. Bull. Wisc. Exp. Sta. 137:1-21. 1906.

²⁵ SELBY, A. D., Studies in etiolation. Bull. Torr. Bot. Club 34:67-75. *pls.* 2. *figs.* 4. 1906.

²⁶ RANDOLPH, HARRIET, The influence of moisture upon the formation of roots by cuttings of ivy. Bull. Torr. Bot. Club 34:93-99. *figs.* 4. 1906.